

ANNUAL PUBLICATIONS

1st Department of Prosthodontics

1993.1.-2000.3.

I. Staffs and Students (April, 1999)

Professor	T.Ohyama	
Associate Professor	H.Mizutani	
Lecturer	K.Nakamura	Y.Okabe
	M.Hideshima	
Research Associate	E.Ishii	M.Yatabe
	K.Soneda	M.Kato
	K.Baba	N.Wakabayashi
	S.Akishige	
Hospital Staff	T.Haketa	T.Yaka
	M.Kotake	M.Sato
	K.Yugami	K.Fueki
	H.Kondo	Y.Yagasaki
	S.Kuroda	
Clinical Training Staff	H.Teraoka	T.Yamazaki
	Y.Kii	R.Saito
	S.Naka	K.Yoshida
	K.Saito	E.Fujimori
	H.Watanabe	T.Tanaka
	R.Furukawa	
Technical official	H.Misuno	
Secretary	H.Tsuboi	W.Shimizu
Graduate Student	T.Ueno	N.Okano
	I.Park	T.Yoneda
	H.Sato	W.Mizuuchi
	M.Yamazaki	H.Togano
	M.Eto	S.Sueda
	D.Ito	S.Sato
Special Student	T.Shiozaki	Y.Amemori
	A.Nishiyama	Y.Okano
	K.Ishinaka	N.Shirasu
	N.Tuchiya	R.Mamura
	T.Hosoi	T.Kinoshita
	M.Sone	T.Takakura
	T.Yoshida	N.Nakamura
	D.Kamata	K.Nakayama
	K.Nakayama	Y.Otuka
	Y.Nishi	N.Onozuka
	H.Kase	M.Taniguchi
	M.Hashimoto	T.Matsumoto
	T.Yamazaki	M.Wada
	N.Oeda	K.Hiraoka
	D.Fukuyo	W. Guradsapsri(Thiland)
	C.Kinjo(Brazil)	M.Morino
	R.Ueno	Y.Ochiai
	T.Morita	K.Kaneda
	K.Takagi	H.Saito
	T.Kawada	J.Nakazawa

Special Student

K.Shimada

T.Sato

II. Educational Outline of Graduate Course

The main subjects of our course are functional and morphological changes of partially edentulous area and temporomandibular dysfunction.

Needless to say, removable partial prosthodontics deals with the restoration of partially edentulous area by means of removable plate dentures. The main objective of this course is to provide students with basic concepts and techniques concerning partial dentures. Students are taught the knowledge of morphological and functional changes of masticatory system following tooth loss and are also taught methods to recover normal masticatory system from disturbed states and to maintain recovered states as long as possible. To fulfill these objectives, the course is given by lectures, laboratory instructions, and clinical practices.

III. Research Subjects

The main research subjects are divided into the following three groups.

- 1 . Morphological and functional investigation of partially edentulous patients
 - 1) Study on mobility of abutment teeth for diagnosis.
 - 2) Morphological and functional investigation on alveolar ridge, occlusal plane, masticatory movement, and efficiency of mastication.
 - 3) Influence of various impression procedures on displacement of soft mucosal tissue.
- 2 . Occlusion related to temporomandibular dysfunction.
 - 1) Electromyographical analysis of masticatory muscles related to occlusion and mandibular position.
 - 2) Kinematical analysis of mastication.
 - 3) Relationships between occlusal interferences and signs and symptoms of temporomandibular dysfunction.
 - 4) Frequency and duration of occlusal tooth contact in patients.
- 3 . Application of dental material, to partial dentures.
 - 1) Application of magnet and ferromagnetic alloy to retainers.
 - 2) Application of titanium alloy to denture bases and retainers.
 - 3) Application of 4META resin to denture bases.

IV. Publications (January, 1993-March, 2000)

A. Original Articles

- 1) Ai,M.,Wakabayashi,N and Yugami,K.:Applications of New Dental Materials to Prosthetic Dentistry, DENTISTRY IN JAPAN, 30: 203 ~ 208,1993.
- 2) Mizutani,H.,Yatabe,M.,Ai,M.,Yaka,T. and Baba,K.:Effects of jaw position on masticatory muscle activity,J. of Oral Rehabilitation,21(2):225-226,1994.
- 3) Shinoda,H.,Geng,Q.,Yamashita,S.,Ai,M.and Ando,S : A gradient-based image measurement system for characterizing 3-D deformation of oral soft tissue , Transactions of the society of instrument and control engineers 29(8):963-972, 1993.
- 4) Yamashita,S.,Ai,M. and Mizutani,H : A new method for measuring nocturnal tooth contac J.Oral.Rehabil. 20(5): 525-532, 1993.
- 5) Haketa T.: Influences of cusp inclination on stability and function of removable partial dentures. The Journal of the Stomatological Society, Japan. 60:81-97, 1993. (in Japanese)
- 6) Mizutani,H. , Nakamura,K. , Ai,M. , Ishikawa,S. , Okuno,O. : A Study of Small Sized Magnetic Attachments for Mandibular Incisors. The Journal of the Japanese Society of Magnetis Applications in Dentistry,2(1):18-22,1993 (in Japanese).
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- 8) Mizutani,H. , Nakamura,K. , Ai,M. : A mechanical study of Magnetic Attachment , Dental Journal, 38(1) : 35-40 , 1993 (in Japanese) .
- 9) Nakamura,K. , Mizutani,H. , Ai,M. : The elongation of teeth with magnet and Magnetic Attachment, Dental Journal,38(1) : 107-114 , 1993 (in Japanese) .
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 - 12) Okabe Y., Yatabe M., Satou M., Enosawa S., Yasuda N., Ai M.: New bonding liner developed as a trial for relining metal base: Effects of the liner to bonds between relining resins (METABASE M) and Co-Cr Alloys. J Jpn Prosthodont Soc, 38:644-648,1994(in Japanese).
 - 13) Ishikawa,S. , Mizutani,H. , Ai,M. , Takahashi,T. , Yoshino,T. , Nakamura,K. : Influences of the Side Slot Form of Magnetic Attachments on the Combining Force to Resin and the Attractive Force , The Journal of the Japanese Society of Magnetic Applications in Dentistry , 3 (1) : 23-29 , 1994 (in Japanese).
 - 14) M.Kato, K.Fueki, K.Miyoshi, K.Yugami, T.Goto, M.Ai : Evaluation of Masticatory Crushability by Utilizing Multivariate Analysis, The Journal of the Japan Prosthodontic Society , 39 , 165-170 , 1995(in Japanese).
 - 15) Yatabe M., Zwijnenburg A., Megens C.C.E.J., Naeije M.: The Kinematic Center: A Reference for Condylar Movements. J Dent Res, 74(10):1644-1648, 1995
 - 16) Shinogaya T., Baba K., Akishige S, Sakima T, Matsumoto M.,: Study on relationship between anterior components of lateral occlusion and muscle activity. Part 1. Anterior components of lateral occlusion. Journal of the Stomatological Society, 62(2):287-302, 1995 (in Japanese).
 - 17) H.Mizutani K.Nakamura and M.Ai Influence of Thermal Cycle on Attractive Force of Magnetic Attachment. Journal of Dental Research,74(Special Issue):471,1995.
 - 18) Okuno O. Takada Y. Kinouchi Y. Mizutani H. and Ai M. Corrosion Resistance of Magnetic Attachment. Journal of Dental Research,74(Special Issue):559,1995.
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 - 20) Mizutani,H. , Ai,M. Investigation of Foreign-made Dental Magnetic Attachments . The Journal of the Japanese Society of Magnetic Applications in Dentistry , 4(1): 37-47, 1995(in Japanese).
 - 21) K.Fueki : Influence of lateral change of occlusal position on the mandibular position at the end of habitual closure , The Journal of the Japan Prosthodontic Society , 40(6) , 1111-1122 , 1996 (in Japanese).
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 - 23) Okabe Y ., Enosawa S ., Ai M ., Yaka T ., Satou M ., Nishiyama A .: EMG activity of the human medial pterygoid muscle in relation to other jaw muscles Part1 a newly devised bipolar needle electrode and an aid to insertion into the medial pterygoid muscle.J.Jpn Prosthodont Soc.40(5),933-939,1996(in Japanese).
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 - 32) Mizutani,H. , Nakamura,K. , Ai,M. Follow-up Study of Removable Denture with Magnetic Attachment by Questionnaire to Dentist . The Journal of the Japan Prosthodontic Society , 41(6): 902-909, 1997(in Japanese).
 - 33) Nakamura,K. , Mizutani,H. , Fukazawa,N. , Morita,T. , Ai,M. Influences of Heat Treatments on Attractive Force of Magnetic

- Attachment . The Journal of the Japanese Society of Magnetis Applications in Dentistry.6 (1) : 63-67 , 1997(in Japanese).
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 - 48) Yugami K., Yatabe M and Ai M.: A case of involuntary mandibular displacement with the complaint of inconvenience during mastication and conversation. Japanese Journal of Phychosomatic Dentistry, 14(1):45-50, 1999 (in Japanese).
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 - 50) Oki M., Taniguchi H., Ohyama T.: Evaluation of obturator prostheses using vibration analysis. J Med Dent Sci、 46 : 21-30、 1999.
 - 51) Komin O., Taniguchi H., Oki M., Ueno T., Takada Y., Suzuki R., Shinozuka O., Ohyama T.: Observation of the vibratory characteristics of the inanimate human skull with mouthguards through displacement value on modal analysis. J. Sports. Dent., 2(1): 17-25, 1999.
 - 52) Sumita Y., Sasaki Y., Ueno T., Taniguchi H., Ohyama T.: Effect of teeth clenching on the force-velocity relationships in isokinetic knee extension. Jpn. J. Phys.Fitness Sports Med. 48: 365-374, 1999.
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- 62) W. Gurdapsri , M. Ai , K. Baba , K. Fueki: Influence of clenching level on intercuspal contact area in various regions of dental arch , *Journal of Oral Rehabilitation* , 27(3) , 239-244 , 2000 .
- 63) Ai M., Yatabe M., Yamashita S., Baba K., Akishige S.: Study on evaluation of prosthetic technology in the dentists' national examination. *J of Japanese Assoc for Dent Education*, 15(2):209-215, 2000 (in Japanese).

B. Books

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- 2) Nakamura, K. , Mizutani, H. : *To Reexamine the Principles of the Removable Partial Denture -Support , Bracing , Retention and the Magnetic Attachment* , The Quintessence YEAR BOOK Tokyo, p24 ~ 30 , 1994 (in Japanese) .
- 3) Mizutani, H. : *Information of Magnetic Attachment and its better Use. 1 . Basic Study , Dental Aspect*, Daichi Shika Shuppan , Tokyo , 108 ~ 114 , 1994 (in Japanese) .
- 4) Mizutani, H. : *Variation of Occlusal Registration according to Dental Arch and/or Antagonistics. Summarization of Knowledge of Modern Dental Subjects. Prosthodontics, Removable Partial Denture*, Ishiyaku publishers, Inc., Tokyo , p79 ~ 81, 1994 (in Japanese) .
- 5) Mizutani, H. : *Recordings of Inter Occlusal Relationship (Occlusal Registration) , Summarization of Knowledge of Modern Dental Subjects. Prosthodontics Removable Partial Denture*. Ishiyaku Publishers, Inc., Tokyo , p81 ~ 91 , 1994 (in Japanese) .
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- 10) Mizutani, H. *Property and Clinical Use of Magnetic Attachment. In: Advanced Dental Technology and New Clinical Application . Ishiyaku Publishers, Inc., Tokyo p147-151 , 1995 (in Japanese) .*
- 11) Mizutani, H. , Nakamura, K. , Ai, M.: *Clinical Use of New typed Magnetic Attachment . Dental Magazine , 84(1) : p16-20 , 1995 (in Japanese) .*
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- 18) Mizutani, H. : *To Examine the Magnetic Attachment Practice in Prosthodontics* 31(6) : p737-745, 1998 (in Japanese).

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C. Review Articles

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- 2) Mizutani,H. : Concept of Magnetic Attachment Denture , The Nippon Dental Review , 604 (2) : 111 ~ 123 , 1993(in Japanese) .
- 3) Nakamura,K. , Mizutani,H. : Magnetic Attachment and Aesthetics,DentalDiamond , 18 : 58-61 , 1993(in Japanese).
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- 12) Mizutani,H. , Nakamura,K. , Ai,M.: Application of Super Thin Magnetic Attachment. Introduction of Hi-Corex Slim Attachment . Dental Magazine, 90(1): 24-27, 1997(in Japanese) .
- 13) Ai M., Baba K. Current Concepts in Bruxism -Findings Clarified and Needed to be Clarified the Quintessence Year Book 1998, 157-164(in Japanese).
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- 20) Yeo K. B., Inoue T., Mukohyama H., Shwe H., Oki M., Ueno T., Phankosol P., Taniguchi H., Ohyama T.: A cast unilateral removable partial obturator prosthesis for an ipsilateral oroantral fistula. Maxillofacial Prosthetics 22 (1): 41-47, 1999.
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- 22) Baba K, Tsukiyama Y, Clark GT. Reliability Validity, and Utility of various occlusal measurement methods and techniques. J Prosthet Dent. 2000• 1 83(1): 83-89
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